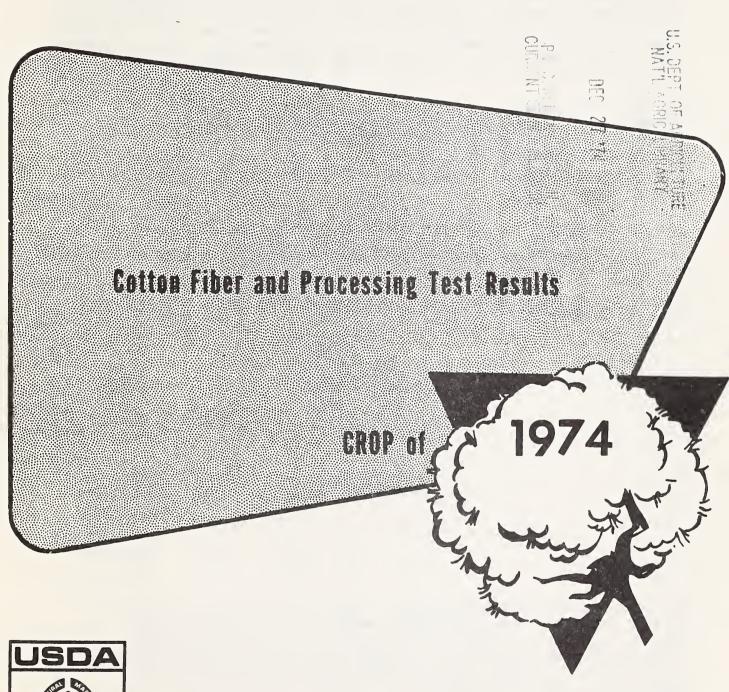
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aTS 1577 .A32152



Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 October 25, 1974

## Discussion of Test Results

Cotton Division laboratories of the Agricultural Marketing Service report short staple average fiber length from the Southwest to be shorter and less uniform than a year ago. Cottons are finer and stronger at zero gage strength tests. Shirley Analyzer nonlint content is lower than a year ago. Yarns spun from these samples show weaker yarn strength and lower yarn appearance grades. Yarn imperfections are fewer than a year ago. The spinning potential yarn number is lower.

Medium staple samples tested from the Southeast are limited, however, the fiber length is shorter than a year ago. Cottons are coarser and stronger at zero gage tests. Shirley Analyzer nonlint content and picker and card waste are lower. Yarns spun from these samples are weaker with higher appearance grades. Yarn imperfections are lower. The spinning potential yarn number is lower than last year.

Medium staple samples tested from the South Central show the fiber length to be shorter and less uniform. Cottons are finer and slightly weaker than a year ago. Yarns spun from these samples are weaker and show a lower appearance grade. Yarn imperfections are fewer.

No additional medium staple sample lots were received during this test period from the Southwest.

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season. 1 These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

Summary of Cotton Fiber and Processing Test Results, Crop of 1973, USDA, AMS, Cotton Division, May 1974.

Averages of fiber and processing tests from selected gin points in the United States through October 18, 1974

Table 1. -- Cotton:

 ## results  Fiber  Zero  gage  82  82  83  84  84  84	Fiber strength   S A   P & gage   Gage   Donlint   Wassing   G/tex   Pct.   Pct     82
Pet	P & C waste Pet. Pet. 6.4 6.7 5.2 4.9 5.8 5.8

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples. Based on a limited number of samples of modal quality

		Spin	<u></u>	
		rfect'ns	lint Gra Yel Waste 8s or 22sor 8s or 22s or 8s or 22sor 8s or 22sor tall 12	NO NO NO NO
	Yarns	Imp	8s 74	욁
	Carded	rance	22sor 27 tx	읭
	ults -	Appea Ind	8s or 74 tx	욁
	Processing Test Results - Carded Yarns	tion	22s or 27 tx	Pct
	sing Te	Elonga	8s or 74 tx	Pct Pct
f 1974	Proces	sth	22s or 27 tx	Lbs
crop o		Streng	8s or 74 tx	Lbs
areas, c		P & C	Waste	Pct
ction		lor Stock	Yel	Pct No No
produ		Co Raw	Gra	일 
ics by ]		S.A.	lint	Pet
cterist	ılts	h Elon- S.A. Raw Stock P & C Strength Elongation	1/8"	Pct
ty chara	Fiber Test Results	er gth	4.0	G/tex
Table 2Cotton, American upland short staple: Quality characteristics by production areas, crop of 1974	Fiber Te	Fiber Strength	Zero 1/8" Gage Gage	Mpsi
		Mike		Rdg
		Digital Ibrograph	Unif	Pet
		Digital Fibrograph	2.5% span	되
			Stple	32s
2Cotton, Au	Production Area, Classification	& Sample Number	Grade Stple 2.5% Unif Span	
Table	죠	02	No	

	Spin.	tial	No
	Imprfect'ns	8s or 22s or 8s or 22s or 8s or 22s or 8s or 22s or 74 tx 27 tx 7t tx 27 tx 7t tx 27 tx 7t tx 27 tx	읽
Yarns	Impr	8s c 74 t	외
Processing Test Results - Carded Yarns	Appearance Index	22sor 27 tx	읾
ults -	Appeara Index	8s or 74 tx	욁
est Res	ation	22s or 27 tx	Pet
ssing T	Elongation	8s or 74 tx	Pct
Proce	ngth	22s or 27 tx	Lbs
	Strength	8s or 74 tx	Lbs
	Color Raw Stock P & C	Gra Yel Waste	Pct
	lor Stock	Yel	읽
	Color Raw Stoc	Gra	<u>8</u>
	S.A.	lint	Pet
ılts	Elon- S.A. R	1/8"	Pet
Test Results	Fiber Strength	1/8" Gage	G/tex
Fiber Test	Fil Stre	Zero Gage	Mpsi
	Mike		Rdg
	Digital brograph	Unif	Pet
	Digital Fibrograph	2.5% span	티
•		Stple	<u>32s</u>
Production Area, Classification	& Sample Number	Grade Name & Code	
		No	

SOUTHWEST

AREA

CENTRAL TEXAS

	33
	91
	32
	100
	120
	5.4
CENT	•
5 PER	1 79 6.2
80	192
	8.9
	m
	9
	3.6
57	5.7
LANKART 57	20
	84
	43 4.0
	43
	• 95
	0
	52 30 0.95
)	
TAYLOR	3 LM LT SF

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974

	Spin. Poten- tial	외		16	53	53		<b>4</b>	4	99	
	oct'ns 50s or 12 tx	읽		20	•	19		6	14	6	
rns	Imprfect'ns 22s or 50s or 27 tx 12 tx	일		27	σ	23		=======================================	22	16	
Processing Test Results - Carded Yarns gth Flondation Appearance	, s	읽		20	100	70		06	10	06	
	Appeara Index 22s or 5 27 tx 1	외		06	120	100		120	100	110	
st Resu	h J	Pet		4.2	3.3	9. 8		3.2	4	4.3	
sing Te	or	Pet		ENT 5.8	ENT 5.3	ENT 5.2		ENT 4.7	ENT 6.2	ENT 6.2	
Proces	igth 50s or 12 tx	<u>rps</u>		PERCENT	PERCENT 24 5.	PERCENT 30 5.		PERCENT	PERCENT 33 6.	PERCENT 36 6.	
	ig e	Ips		100 P	88	95		73	103	100	
	Color Raw Stock P & C Gra Yel Waste	Pct		5.1	5.6	8 • 8		8.8	4.2	5.7	
	Color w Stock a Yel	읾		9	m	ю		6	6	7	
	Co Raw Gra	읽		2	ю	2		₩.	7	2	
	S.A. Non- Lint	Pct		2.7	13 2•1	2.6		2.8	2.2	3.4	
lts	Elon- gat'n 1/8"	Pct		417 5.0	STONEVILLE 213 23 6.1	201		DELTAPINE 45A 21 6.0	INE 16	INE 16 6.3	
Test Results	er gth 1/8" Gage	G/tex		COK ER 26	STONEV 23	COKER 23		DELTAP 21	DELTAPINE 16 24 7.4	DELTAPINE 16 24 6.3	
Fiber Te	Fiber Strength Zero 1/ Gage Ga	Mpsi		92	8	79		79	83	86	
		No.		4.1	5.1	4.7		6.4	3.9	3.9	
	al raph Unif.	Pet		40	46	41		4.7	43	42	
	_ E4 C1 00	미		1.11	1.05	1.07		1.05	1.09	1.08	
	l <del>"</del>	32s	AREA	35	34	34	AREA	34	35	34	
Area,				41	41	41	∢	45	41	41	
Production Area, Classification	Sample Number No Grade Name & Code		SOUTHEAST	ALABAMA PRATTVILLE 1 SLM	ST CLAIR 1 SLM	GEORGIA ALLENTOWN 1 SLM	SOUTH CENTRAL	LOUISIANA BUNKIE I SLM LT SP	MISSISSIPPI GUNNISON 1 SLM	INDIANCLA 1 SLM	

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1974

	Spin. Poten-	tial	81		61		63
	t'ns	50s or 12 tx	일		18		14
arns	Imprfect'ns	22s or 27 tx	요		17		8 8
arded Y	ance	50s or 12 tx	8		100		100
Processing Test Results - Carded Yarns	Appearance Index	22s or 27 tx	No		110		100
	tion	Comber 22s or 50s or 22s or 50s or 22s or 50s or 22s or 50s or Waste 27 tx 12 tx 27 tx 12 tx 27 tx 12 tx 27 tx 12 tx	Pct		4 4 W Q		en 4₽ en en
sing Te	Elongation	22s or 27 tx	Pct		6.1 6.5		ENT 5.1 5.8
Proces	gth	50s or 12 tx	Libs		95 PERCENT 3 33 6. 1 43 6.		) PERCENT 31 5-
	Strength	22s or 27 tx	zd.		99 103 121		100 100 123
	P & C	Com <b>ber</b> Waste	Pet		8.4		8.1 19.7
		Yel	잃		m #		m <b>*</b>
	Color Raw Stock	Gra	No No		2		en
	S.A.		Pct		3.6		3.1
S A	Elon-	1/8"	Pet		6.3		310 5.6
Fiber Test Results	er gth	1/8"	G/tex		COKER 310 21 6.3		COKER 310 23 5.6
iber Te	Fiber	Zero	Mpsi		81		06
ഥ		Mike	Rdg		4.2		4.1
	1,44	Unif.	Pet		46		94
	Digital	2.5%	를 타		1.16		1.17
		Stple	32s	AREA	41 36	AREA	36
rea,	rom Sr		1	A	411		41
Production Area,	Classileatio & Sample Number	Grade			DL IN	FRAL	CITY
ducti	assııı & mple N	Gre		AST	CARC	CENI	SSISSIPPI MORGAN CITY SLM
Pro	S C			SOUTHEAST	NORTH CAROLINA DUNN 1 SLM	SOUTH CENTRAL	MISSISSIPPI MORGAN CI I SLM
1		S S	1	S	Ž	S	1

\* Comber Waste and Combed Yarn Data